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DERWENT-WEEK: 199127

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TITLE: Composite textile material, e.g. for
reinforcement with resin - has at least two woven layers
of different fibres, e.g. aramid & glass, joined
together by felting

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EP 435783 A		July 3, 1991	N/A
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DE 69009433 E		July 7, 1994	N/A
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EP 435783 B1		June 1, 1994	F
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FR 2656341 A		June 28, 1991	N/A
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US 5180633 A		January 19, 1993	N/A
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EP 435783A	N/A	
1990EP-0420352	December 11, 1990	
DE 69009433E	N/A	
1990DE-0609433	December 11, 1990	
DE 69009433E	N/A	
1990EP-0420532	December 11, 1990	
DE 69009433E	Based on	EP 435783
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US 5180633A	N/A	
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ABSTRACTED-PUB-NO: EP 435783A

BASIC-ABSTRACT:

A composite textile material, e.g. for reinforcement with resin, consists of a multi-layer structure, the different layers of which are connected by felting. The material has at least two woven layers, one of which is based on fibres with high mechanical strength, e.g. aramide, while the other is based on fibres of a different nature, and esp. glass fibres in continuous filaments. The layers are connected by felting, carried out so that a minor proportion of the fibres with high mechanical properties are implanted in the structure of the glass fibre material. The two woven layers used in the material are made from fibres which have a high number of non-twisted filaments, forming a relatively flat and aerated structure once they are woven.

ADVANTAGE - Produces material which retains properties of initial layers while eliminating all risk of layer sepn. in the finished material.

ABSTRACTED-PUB-NO: US 5180633A

EQUIVALENT-ABSTRACTS:

Composite textile material prodn. of composite resin reinforced structure comprises a multilayer structure having a first layer based on a weave of yarns with high mechanical performance e.g. of aramid polymer, carbon fibre etc. and a second layer having the same wt. per unit area as the first layer and based on a weave of yarns of another kind e.g. continuous filament glass yarns. The two layers are bound together by needling so that a small proportion of the high mechanical performance fibres is implanted within the woven glass yarn structure.

ADVANTAGE - Resists delamination and has high strength in all directions.

EP 435783B

Composite textile material for the production of composite articles, consisting of a multilayer structure, the various layers being joined together by needling, characterised in that it comprises at least two woven layers: one of which is based on yarns with high mechanical performance (for example aramid); and the other of which is based on yarns of continuous filament glass yarns, the two woven layers being bound together by needling so that a minor part of the high mechanical performance fibres is implanted within the woven glass yarn structure.

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0 Dwg.0/0

TITLE-TERMS: COMPOSITE TEXTILE MATERIAL REINFORCED RESIN
TWO WOVEN LAYER FIBRE
ARAMID GLASS JOIN FELT

DERWENT-CLASS: A60 F07 P73

CPI-CODES: A08-R01; A12-S05F; A12-S08F; F02-A03; F02-C02C;
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UNLINKED-DERWENT-REGISTRY-NUMBERS: 5023U; 5214U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0011 0034 0224 0226 0228 1283 2212 2214 2215
2219 2486 2528 2629
2635 2821

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